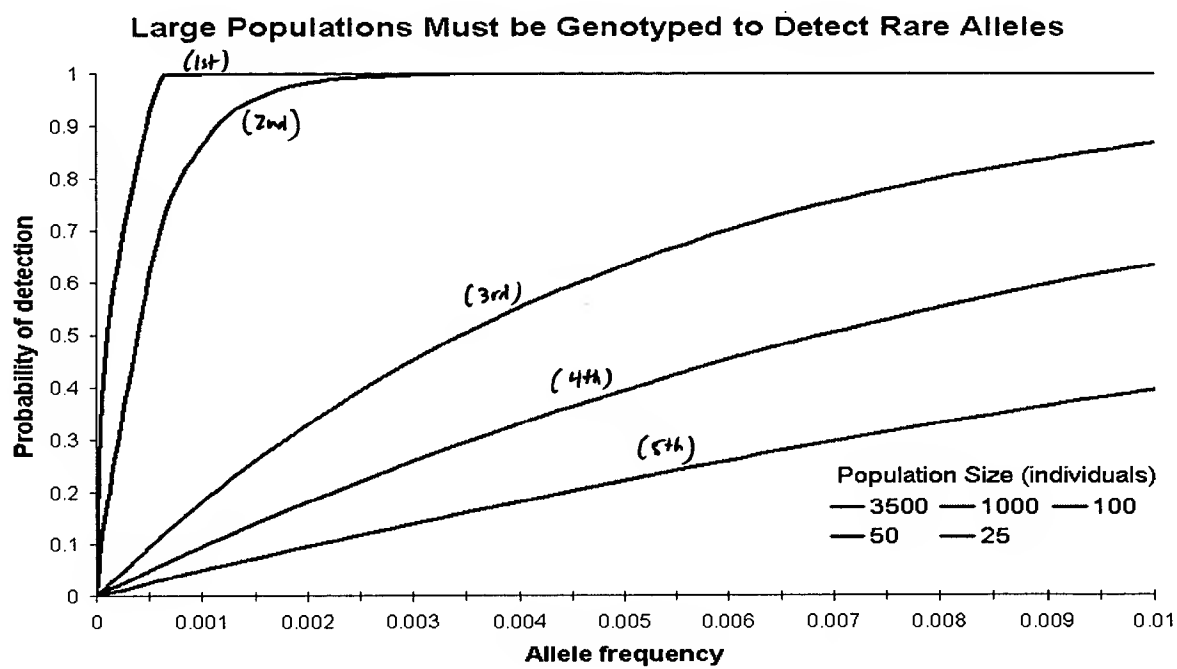
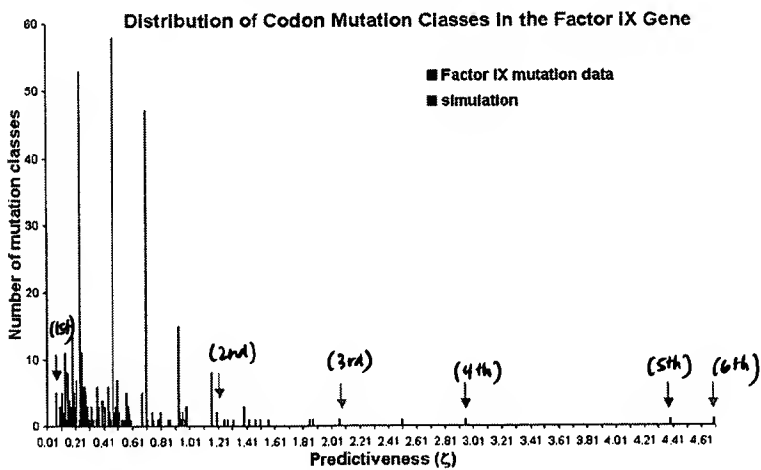
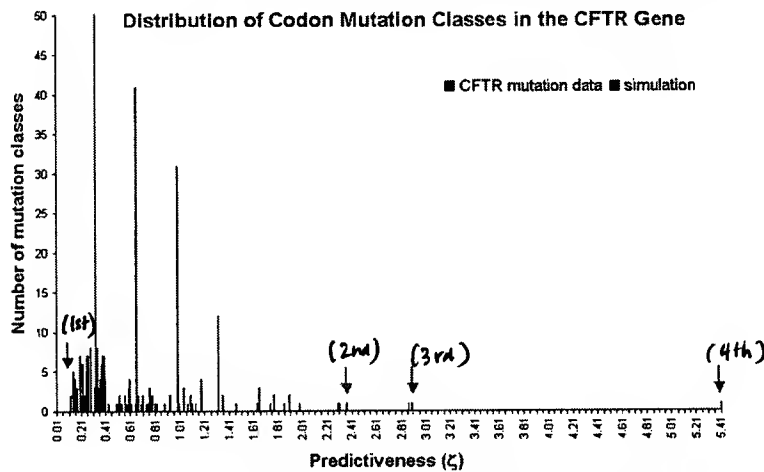
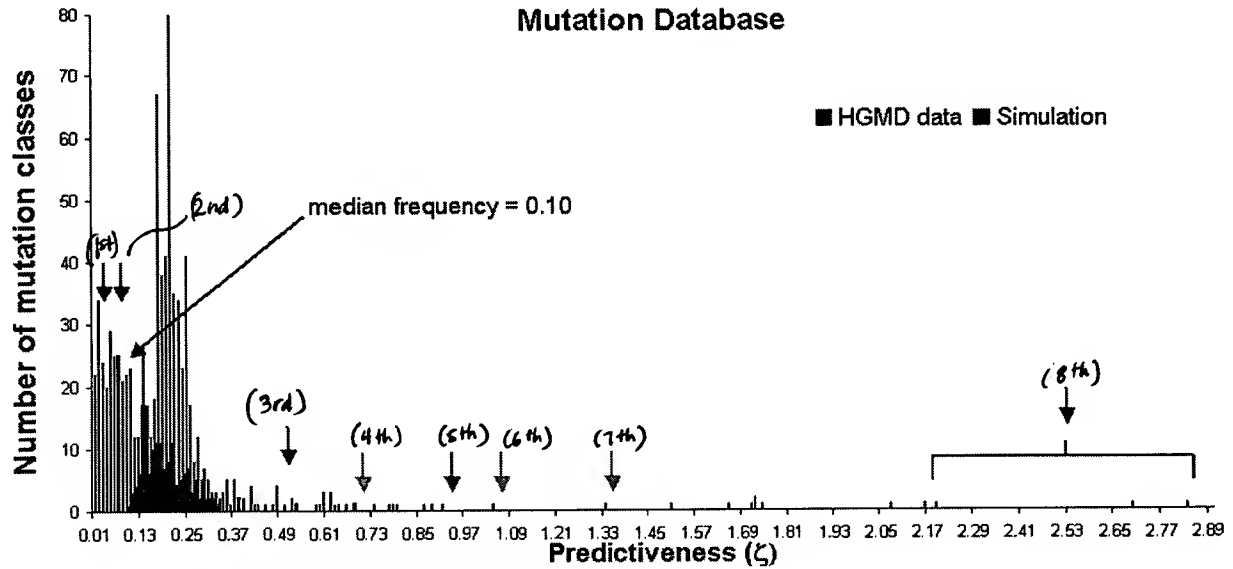


FIGURE 1



FOOT-4068660

FIGURE 2



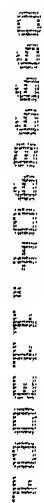
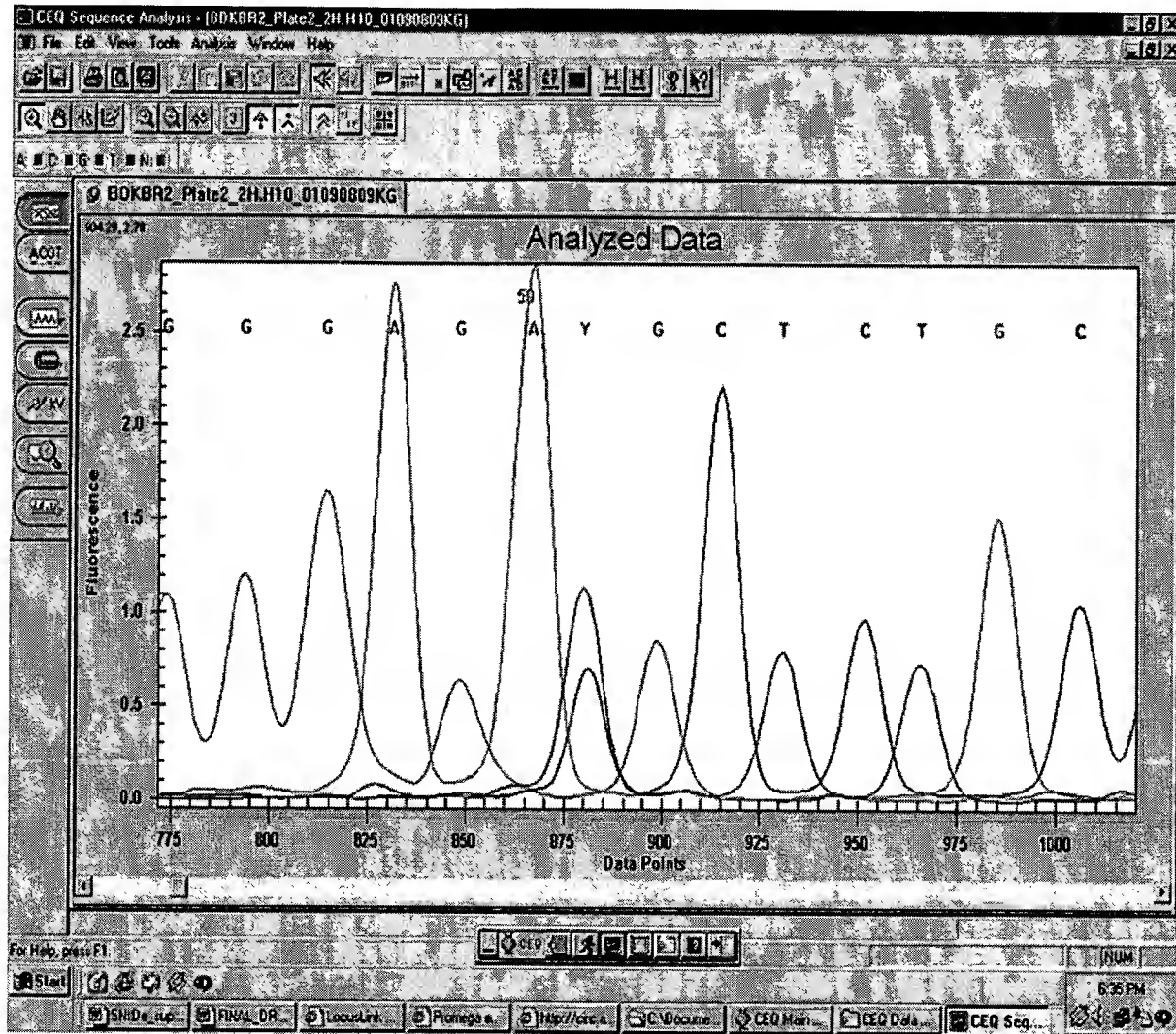


FIGURE 4



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FIGURE 5

Matrix construction

Gather variation data collection with
property of interest (e.g., disease-
causing, high frequency, etc.)

Determine predictiveness scores from
relative frequencies of variations

Modify predictiveness scores based on
other considerations (e.g., codon
usage, structure, etc)

Matrix deployment

Evaluate query sequence(s) against
predictiveness matrix to identify likely
variants have desired properties (e.g.,
disease-causing, frequency, etc)

FOOTNOTES